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IDEA-0038-70

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20 January 1970

MEMORANDUM FOR THE RECORD

SUBJECT: FY 1970 and 1971 Pressure Suit Requirements

REFERENCES: A. D/O/OSA Memo Idea-0073-70 dtd 7 Jan 1970  
B. AMS/OSA Memo Idea-0034-70 dtd 8 Jan 1970

1. An inventory of spare parts has been accomplished at Detachment G to try and economize on S1010 PPA fabrication for the proposed replacement pilot schedule. At the present time there are available adequate vital components (gas bladder, link net, outer cover) at [ ] to fabricate an additional full-pressure suit for the five (5) carbons at a cost of approximately \$35,000.

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2. Since six (6) spare helmets, (three (3) at Detachment G and three (3) at [ ] were bought during FY-69, it will not be necessary to purchase any additional helmet assemblies. As pilots leave the program and are replaced, new helmet liners will be fabricated. This will provide a considerable saving in that a complete helmet assembly costs \$6,100.00 whereas the liner, alone, costs only \$500.00.

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3. A schedule of reclamation and fabrication has been worked out; therefore, only two (2) completely new suits will be necessary. Rework of existing suits will fulfill the needs of the remaining additions to the project. To fabricate a new suit costs \$16,000., including pattern work. To rework a first suit costs approximately \$12,000., including pattern work. To rework a second suit costs approximately \$6,000. A rework and fabrication chart is shown as Attachment #1.

4. Total cost for FY-1970 and 1971 full-pressure suits will be approximately \$150,000. The NRO has approved \$75,000. for FY-1970, and an additional \$77,000. will be required in FY-1971. These figures include preparing a second suit for the [redacted] at [redacted] as well as two (2) S-1010 PPA's for all project pilots.

[redacted]  
Chief, Aeromedical Staff  
Office of Special Activities

Attachment  
As stated above

AMS/OSA [redacted]  
Distribution:  
1 - AMS/OSA w/att  
2 - D/O/OSA "  
3 - Idea/O/OSA "  
4 - SAS/O/OSA "  
5 - D/M/OSA "  
6 - D/SA "  
7 - AMS/OSA Chrono "  
8 - RB/OSA w/o att

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## ATTACHMENT # 1

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<u>Pilot</u>	<u>Suit #</u>	<u>Action</u>	<u>Cost</u>
	427-1	New Suit	\$16,600
	427-2	Rework from #406-1	\$4,000-6,000
	428-1	Rework from #405	\$12,000
	428-2	Rework from #406-2	\$4,000-6,000
	429-1	Rework from #424-1	\$12,000
	429-2	Rework from \$414	\$4,000-6,000
	430-1	New Suit	\$16,600
	430-2	Rework from #416	\$4,000-6,000
	431-1	Rework from #404-2	\$12,000
	431-2	Rework from #404-3	\$4,000-6,000
	432-1	Rework from #408-1	\$12,000
	432-2	Rework from #408-2	\$4,000-6,000
TOTAL			\$117,200

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\$117,200

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35,000 Cost to equip  with a second suit

152,200

75,000 Approved by NRO for FY-70 suits

\$ 77,200 Needed to equipment new pilots in FY-71

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8 January 1970

MEMORANDUM FOR THE RECORD

SUBJECT: FY-70 and 71 Pressure Suit Requirements

REFERENCE: D/O/OSA Memo, IDEA-0073-70 dtd 7 Jan 70

1. The following S-1010 PPA Full-Pressure suits and MC-3 partial pressure suits will be necessary in FY-70 and 71 to fulfill the criteria as outlined in the referenced Memorandum.

FY-70

A. Two (2) S-1010 PPA's for [ ]  
Each [ ] pilot has two complete suit assemblies  
and one helmet.

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Cost breakdown

One suit assembly -- \$15,400.00  
One helmet -- 6,100.00

Total cost for each [ ] pilot is \$36,900.00

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B. Two (2) S-1010 PPA's for the [ ] pilot  
to replace [ ]

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Total cost for the [ ] pilot is also \$36,900.00

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FY-71

A. Four (4) S-1010 PPA's for two (2) [ ] pilot replacements. Total cost \$73,800.00

B. Two (2) S-1010 PPA's for two (2) [ ] pilot replacements. Total cost \$43,000.00

The Life Support Officer suggests the following be considered as a policy change and solicit your comments.

In the past [ ] pilots have only been issued one full-pressure suit since it was anticipated that their commitment would not exceed three (3) years. Historically, this has not been the case and it is recommended, therefore, that all pilots in Category-I status be issued two (2) full-pressure suits. This change in philosophy will initially cost approximately \$30,000.00. As old suits become available with the completion of pilot obligations, hardware will be salvaged and backup suits provided for the remaining [ ] pilots at a somewhat reduced cost.

C. Two (2) MC-3 partial pressure suits for [ ] pilots. Total cost \$ 3,200.00

2. The NRO has approved \$75,000.00 for the purchase of pressure suits during FY-70. During FY-71 approximately \$120,000.00 will be necessary to adequately clothe the pilot replacements as discussed above.

3. Lead time necessary for fabrication of the S-1010 PPA in its entirety is four (4) months from the time of measurement. Lead time for fabrication of a partial pressure suit is two (2) months. Pressure-suit measurements should be accomplished as early as possible after final pilot selection to satisfy these lead times.

4. All U-2C flights for both [ ] pilots will be made below forty-five thousand (45,000) feet, therefore, partial pressure suits will be unnecessary.

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5. Indoctrination of replacement pilots in both the full and partial pressure suits will be accomplished utilizing the low-pressure chambers installed at [REDACTED]. These chamber flights are conducted to familiarize pilots with the pressure suit and to assure proper fit and mobility in the pressurized state. A considerable saving will be provided in performing these runs at [REDACTED] since only the factory engineer and the Physiological Training Officer (PTO) have to travel. In the past, chamber flights have been given at the [REDACTED] requiring travel of the Physician, PE man, pilot, PTO, and Factory Engineer to Buffalo, New York.

Additionally, the Contractor cost to operate the chambers was averaging [REDACTED] a pilot.

[REDACTED]  
Chief, Aeromedical Staff  
Office of Special Activities

C/AMS/OSA/[REDACTED]  
Distribution

- 1 - AMS/OSA
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